

NS TOOL

CORE LINE

**PCD**

Polishing time reduced by advanced technology

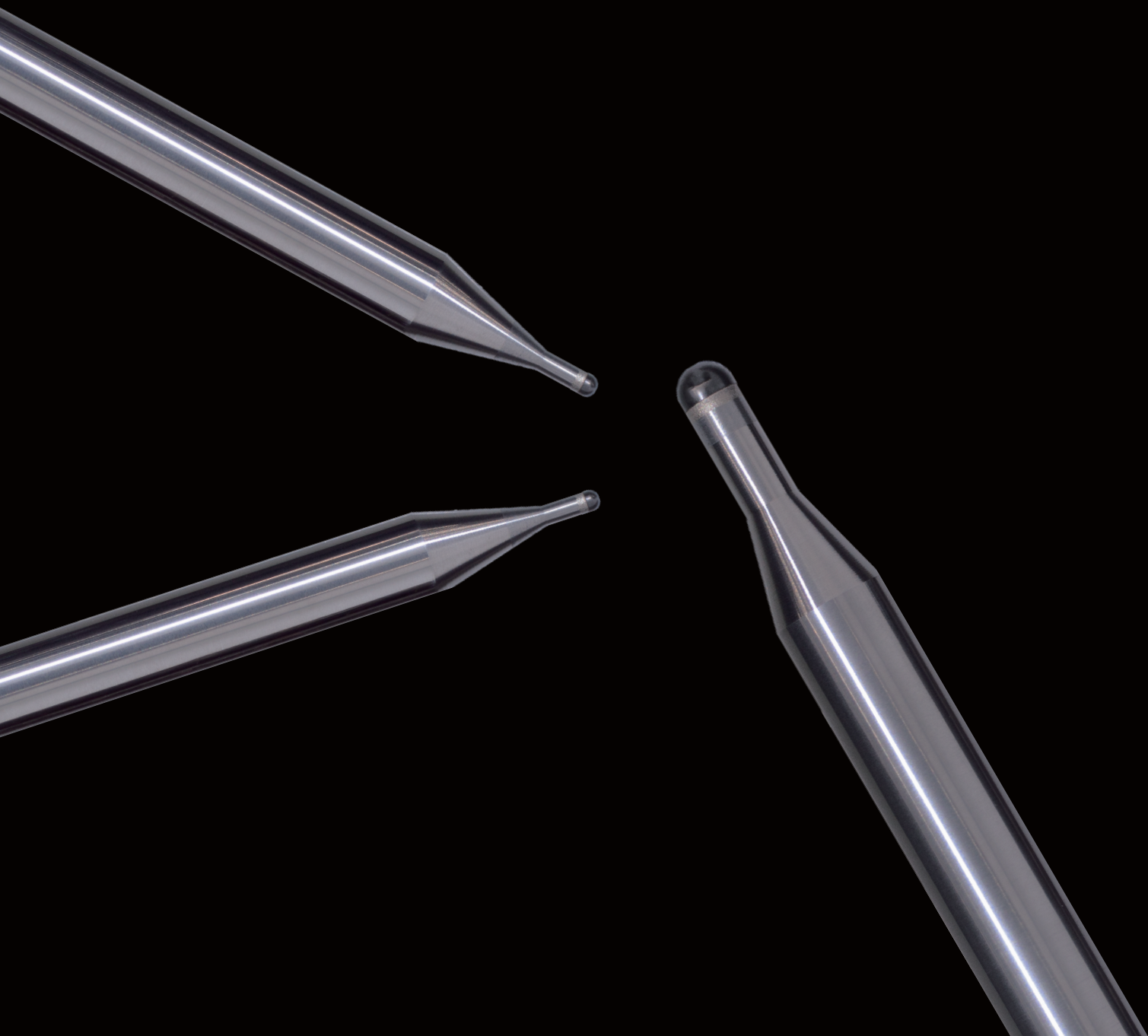
**PCD** Ball End Mill

Size expansion :

**R0.15 · R0.25**

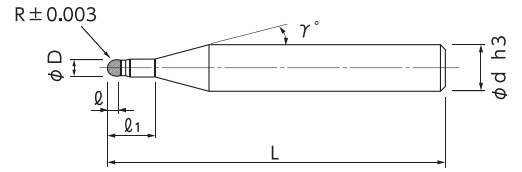
**PCDRB**

Lineup Expansion in January , 2024



PCD Ball End Mill

**PCDRB** R0.05 ~ R3 Total 15 sizes



Work Material

Hardened Steel H	Hard Brittle Material O
◎	◎

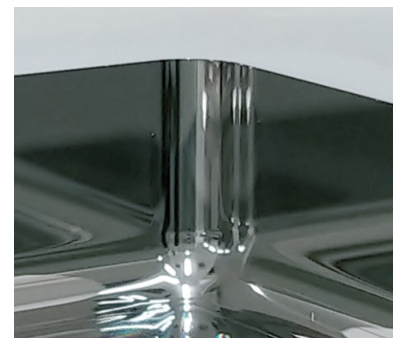
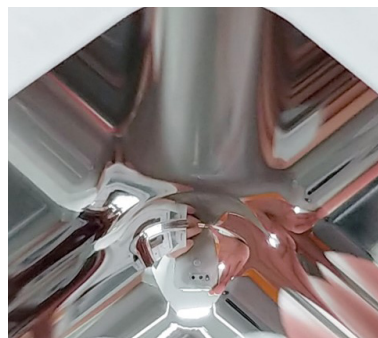
**NEW** ※Released in January, 2024

Unit [Size : mm]

NEW	Code No.	Radius (R)	Under Neck Length (ℓ <sub>1</sub> )	Length of Cut (ℓ)	Dia. (D)	Neck Taper Angle (γ)	Shank Dia. (d)	Overall Length (L)
	04-00500-00501	R0.05	0.15	0.05	0.1	15°	4	48
	04-00500-00502		0.25	0.05	0.1	15°	4	48
	04-00500-00751	R0.075	0.23	0.075	0.15	15°	4	48
	04-00500-00752		0.38	0.075	0.15	15°	4	48
	04-00500-01001	R0.1	0.5	0.1	0.2	15°	4	48
<b>NEW</b>	04-00500-01501	R0.15	0.75	0.15	0.3	15°	4	48
	04-00500-02001	R0.2	1	0.2	0.4	15°	4	48
<b>NEW</b>	04-00500-02501	R0.25	1.25	0.25	0.5	15°	4	48
	04-00500-03001	R0.3	1.5	0.3	0.6	15°	4	48
	04-00500-05001	R0.5	2.5	0.5	1	15°	4	50
	04-00500-07501	R0.75	3.8	0.75	1.5	15°	4	48
	04-00500-10001	R1	5	1	2	15°	4	48
	04-00500-15001	R1.5	7.5	1.5	3	15°	6	59
	04-00500-20001	R2	10	2	4	15°	6	60
	04-00500-30001	R3	15	3	6	-	6	62

**How to Order** When you order, indicate PCDRB (R)×(ℓ<sub>1</sub>).

※ (γ) is reference Value.



Work Material: HAP40 (64HRC)

Tool PCDRB R3 × (ℓ<sub>1</sub>)15  
 n : 16,000 min<sup>-1</sup>, vf : 700 mm/min  
 apxae : 0.009 × 0.009 mm  
 Surface Roughness:  
 Side Ra 0.004 μm  
 Bottom Ra 0.023 μm

Tool PCDRB R1.5 × (ℓ<sub>1</sub>)7.5  
 n : 25,000 min<sup>-1</sup>, vf : 700 mm/min  
 apxae : 0.006 × 0.006 mm  
 Surface Roughness:  
 Side Ra 0.006 μm  
 Bottom Ra 0.046 μm

**NS TOOL CO.,LTD.**

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※For cutting condition, please refer to our official website  
<https://www.ns-tool.com/en/products/detail/193>

